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ABSTRACT

A loop-type thermosiphon capable of stable operation regardless of fluctuation of heat load and a Stirling refrigerator using the same are provided. The loop-type thermosiphon transferring heat from a high-temperature heat source using a working fluid includes a evaporator having a heat absorption portion and evaporating the working fluid by depriving the high-temperature heat source of heat through the heat absorption portion, a condenser located above the high-temperature heat source and condensing the working fluid that has evaporated in the evaporator, and a pipe connecting the evaporator and the condenser so as to form a loop. In the loop-type thermosiphon, the working fluid that has passed through the condenser is brought in contact with the heat absorption portion before it is pooled in a liquid pool for the working fluid in the evaporator, so as to exchange heat with the same.

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